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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/988,917	11/19/2001	Young Jun Kim	2598/OK017	9372

7590 11/03/2004

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New York, NY 10022

EXAMINER

LAM, HUNG H

ART UNIT	PAPER NUMBER
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2615

DATE MAILED: 11/03/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/988,917

Applicant(s)

KIM ET AL.

Examiner

Hung H. Lam

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☐ Claim(s) ____ is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-4 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 19 November 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Specification

2. The disclosure is objected to because of the following informalities: page 9, line 10 of the abstract should read as "a lens" instead of "an lens". Appropriate correction is required.
3. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Objections

4. Claim 1 is objected to because of the following informalities: page 8, line 11 should read as "a lens" " instead of "an lens". Appropriate correction is required.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

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(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

6. Claim 1,3 and 4 are rejected under 35 U.S.C. 102(e) as being anticipated by Izumi et al. (US-5,274,456).

Regarding claim 1, Izumi et al. disclose an imaging device module package which comprises:

an image sensor chip (64, Figs. 1A and 1B) for reading an image; a circuit board electrically connected to said image sensor chip (249, Fig. 14B; col.19, lines 50-55); a housing (243) adhered on said circuit board (249, Fig. 1A), and having an opening at the top for allowing light (243, Fig. 17 part e for housing) to said imaging sensor chip (240) and steps (243,241, Figs. 1A and 17) with rounded side (246, 217, Figs. 1b and 12b);

a holder having a ring-shaped opening (1, Figs. 1A, 1B) corresponding to said steps (243,241, Figs. 1A and 17) around said opening of the housing for interference fitting around said steps (Fig. 1A; col. 18, lines 9-14) and a lens (L4, Fig.1A) internally fitted to said holder (Fig.1A, col. 18, lines 55-60).

Regarding claim 3, Izumi et al. further disclose an imaging device module package which comprises: a projection (115 and 116, Fig. 1A) in an inner side of said

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holder (Fig. 1A) for settling said lens (col. 5, lines 13-15), said projection face (116, Fig. 1A) contacting with said opening of the housing (see Fig. 1A).

Regarding claim 4, Izumi et al. disclose an imaging device module package wherein said circuit board is a flexible circuit board (col. 17, lines 22-25).

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over of Izumi et al. in view of Huang (US-6,384,472).

Regarding claim 2, Izumi et al. disclose an image device module package which comprises a housing (see Fig. 17 part e for housing), but Izumi et al. does not further teach a projection in an inner side of said housing for settling an iris filter or a cover glass. However, the limitations are well known in the art as taught by Huang.

In the same field of endeavor, Huang discloses an imaging device module package which further comprises: a projection (120, Figs. 3-4) in an inner side of a housing (side wall 124, Figs. 3-4) for settling a cover glass (142, col. 4, lines 23-25). In light of the teaching from Huang, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the image package holder (1) taught by Izumi et al by providing a cover glass in order to seal the image sensor package structure.

Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

a) Nakajoh et al. (US-6,762,796) disclose image pickup module having integrated lens and semiconductor chip.

b) Weng (US-6,011,661) discloses optical holder for an optical apparatus.

1. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hung H. Lam whose telephone number is 703-305-8143. The examiner can normally be reached on Monday - Friday 8AM - 5PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's primary's, NGOC YEN VU can be reached on 703-305-4946. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

HL

10/27/08



NGOC-YEN VU
PRIMARY EXAMINER